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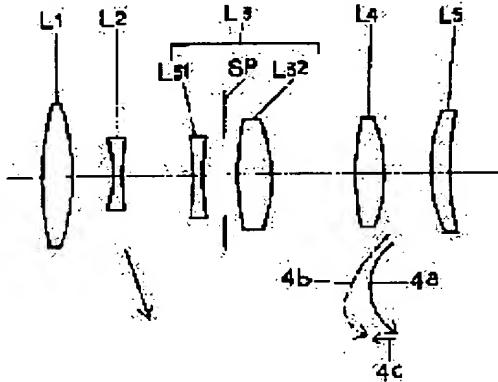
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(54) ZOOM LENS OF REAR FOCUSING SYSTEM

(57) Abstract:

PURPOSE: To provide a zoom lens of a rear focusing type of a variable power ratio of 10 and an F-number of about 1.6 by providing the zoom lens with five lens groups as a whole, executing focusing with a lens group backward of a variable power system and providing the whole lens system with a small size.

CONSTITUTION: This zoom lens has, successively from an object side, five lens groups; a first group L1 having a positive refracting power, a second group L2 having a negative refracting power, a third group L3 having a positive refracting power, a fourth group L4 having a positive refracting power and a fifth group L5 having a positive refracting power. Variable power from a wide angle end to a telephoto end is executed by moving the second group L2 to an image plane side. A fluctuation in the image plane according to the variable power is corrected by moving the fourth group L4 and focusing is executed by moving the fourth group. The conditions $0.4 < f_4/f_5 < 1.2$ are satisfied when the focal length of the i-th group is defined as f_i .



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